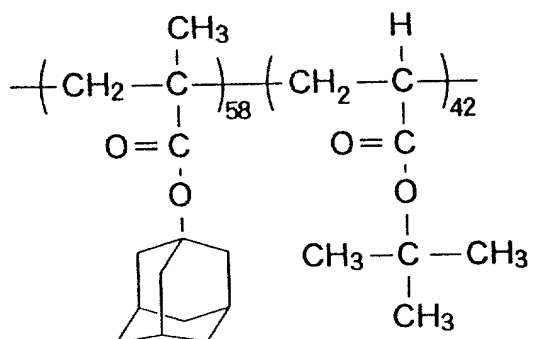


THE ABSTRACT OF THE DISCLOSURE

A copolymer expressed by the following structural formula



was obtained by loading adamantyl methacrylate monomer and t-butyl acrylate monomer by 1:1, then conducting polymerization, adding AIBN as a polymerization initiator, and then conducting precipitation purification with methanol. Then to the copolymer, triphenylsulfonium hexafluoroantimonate was added to prepare a cyclohexanone solution. This solution was applied to a wafer, and exposed to a KrF excimer stepper and developed. The threshold energy E_{th} was 50 mJ/cm^2 . A $0.45 \text{ }\mu\text{m}$ -wide L & S was formed at 130 mJ/cm^2 . The radiation sensitive material has good transparency and etching resistance, high sensitivity, and little peeling.